

# SRO 12/30

kV dependent max mA values for exposure times  $\leq 100\text{ms}$  in combination with Optimus 50/65/80kW

kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]	kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]	kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]	kV	SF [ $\mu\text{A}$ ]	LF [ $\mu\text{A}$ ]
40	64000	197000	70	141000	413000	100	120000	300000	130	92307	230769
41	66400	204400	71	143400	414833	101	118811	297029	131	91603	229007
42	68800	211800	72	145800	416666	102	117647	294117	132	90909	227272
43	71200	219200	73	148200	410958	103	116504	291262	133	90225	225563
44	73600	226600	74	150600	405405	104	115384	288461	134	89552	223880
45	76000	234000	75	153000	400000	105	114285	285714	135	88888	222222
46	78600	241800	76	157894	394736	106	113207	283018	136	88235	220588
47	81200	249600	77	155844	389610	107	112149	280373	137	87591	218978
48	83800	257400	78	153846	384615	108	111111	277777	138	86956	217391
49	86400	265200	79	151898	379746	109	110091	275229	139	86330	215827
50	89000	273000	80	150000	375000	110	109090	272727	140	85714	214285
51	91600	280800	81	148148	370370	111	108108	270270	141	85106	212765
52	94200	288600	82	146341	365853	112	107142	267857	142	84507	211267
53	96800	296400	83	144578	361445	113	106194	265486	143	83916	209790
54	99400	304200	84	142857	357142	114	105263	263157	144	83333	208333
55	102000	312000	85	141176	352941	115	104347	260869	145	82758	206896
56	104600	319800	86	139534	348837	116	103448	258620	146	82191	205479
57	107200	327600	87	137931	344827	117	102564	256410	147	81632	204081
58	109800	335400	88	136363	340909	118	101694	254237	148	81081	202702
59	112400	343200	89	134831	337078	119	100840	252100	149	80536	201342
60	115000	351000	90	133333	333333	120	100000	250000	150	80000	200000
61	117600	358400	91	131868	329670	121	99173	247933			
	120200	365800	92	130434	326086	122	98360	245901			
	122800	373200	93	129032	322580	123	97560	243902			
	125400	380600	94	127659	319148	124	96774	241935			
	128000	388000	95	126315	315789	125	96000	240000			
	130600	393000	96	125000	312500	126	95238	238095			
	133200	398000	97	123711	309278	127	94488	236220			
	135800	403000	98	122448	306122	128	93750	234375			
	138400	408000	99	121212	303030	129	93023	232558			

These are the default values of the tube data file TUBE\_R2.TDL or TUBE\_R3.TDL.

Typically there are no changes after adaptation except there are reductions due to the max generator power (Optimus 50kW = 650mA max) or if the filament does not have its full emission anymore (e.g. from shorted filament loops).

The **red marked** emission current values (at 77kV SF and 72kV LF) are the max emission currents at a kV value from which on the filament current can be reduced to achieve its max load performance.